

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: kimitsuka\_glen <glenk@dsg.tandem.com>  
Subject: [3350] \*\*\*WARNING\*\*\* Re: MVP Handy Power Stations  
Message-ID: <9608291605.AA15270@sid1.dsg.tandem.com>

Hi,

I had two of these units and both of them had the batteries fail in less than a year. They are imported batteries that didn't like being left in a state of discharge. SO KEEP them charged in storage and check them occassionally if not being used.

The concept is good, so I gutted them out and put a 6AHr battery as a replacement.

As another said, it takes a >13.8VDC charger to get the "charged" light to come on.

Good luck, Glen. KM6WR

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Mike Robinson <miker@cc.com>  
Subject: [3371] 13.5VDC @ 1.5A  
Message-ID: <9608292200.AA27961@voder.nsc.com>

Halted Electronics in San Jose has 13.5VDC at 1.5A wallwarts for \$10 (+shipping). I got mine.

=====  
7.3 de Michael AA0UB            miker@cc.com            michael@frii.com  
                              http://www.frii.com/~michael  
                  QRP-L #126            Norcal #857            CQC #180  
=====

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: John Koza <70412.3312@compuserve.com>  
Subject: [3365] 4 Novices in the woods, qrp, with N1XLQ  
Message-ID: <960829192419\_70412.3312\_JHD76-1@CompuServe.COM>

Hi gang:

This is my first posting to the list, although I have been "reading the mail" for a few weeks, and responded individually to a couple of postings. This has

got to be the most informed, helpful and civilized group on the 'net!

This spring I had the privilege of mentoring my son and three of his friends in ham radio to their novice tickets, and I'm happy to report that they love the code and HF operation :-). We are planning a trip to the top of North Doublehead Mt. in NH on Sept 7/8. We weren't intending to operate originally, because none of us has qrp gear - yet (for shame!). We've been saving our pennies, and have been sharing a donated Drake TR-4 at my QTH (cranked way down to near qrp level, at least).

However, one of the Dads in the group has found an HW-8 for us to borrow, so we will be able to do some mountaintop qrp ops! I know it's a big rig for a hiking expedition, but we're glad to have it, and we have some young strong backs to carry it. We're supposed to get the rig next week. I'll post our operating schedule as soon as I can.

With apologies for the bandwidth, would you please advise me on a couple of points before we go?

1. I'll need to furnish the HW-8 with a battery. I was thinking of maybe a gel cell of about 4Ah capacity? This rig draws about 450mA on TX, and I think about 1/10th of that on RX. After we give the rig back to the owner, the battery would be used to power a Sierra for 2 to 3 day excursions. BTW, my local wal-mart doesn't have any of the clearance batteries mentioned recently on the list :-(

2. These kids are hot to build something this fall - qrp of course. I'm leaning toward the Sierra as the most flexible of the rigs for the money - something that will carry them, and me, through license upgrades etc. Is it too difficult as a "first project" for them? They are all 13 or 14 years old, with pretty good hands and pretty sharp minds. One of them has built a TenTec regen receiver already. We'd build the rigs as a Saturday AM group project. Just imagine the smoke rising from all those soldering irons...does your heart good... We'll ventilate the area, of course!

Thanks for the input,  
73 de John, N1XLQ  
70412.3312@compuserve.com

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: "Ahrens Tim" <tahrens@devmail.sps.mot.com>  
Subject: [3346] 40-9er + hemostats!  
Message-ID: <9607298413.AA841339828@devmail.sps.mot.com>

Hi fellow QRP'rs -

Well, one more 40-9er complete! Got it finished about 11 o'clock the other night, and heard W9SYV calling CQ. Of course, it wasn't in the box or anything, but what the heck, let's try. Oh-oh, where's that straight key?..... Quick, he's signing his call again.. what do I use? There are some hemostats in the tool box. One clip to the ground wire, and the second one clip to the key wire. Tap Tap Tap... ooh, what crummy code....was that 5 dits, or six... no side-tone, take off the headphones to send the call... hey, he's calling me! ... probably calling me a LID with a dribble-fist too! haha

what a hoot!

Thanks to all for a really cute kit! Now, how to get rid of some of the foreign broadcast bleed through.

Tim WA5VQK

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Dan Keen <70731.722@compuserve.com>  
Subject: [3370] 40-9er + hemostats!  
Message-ID: <960829212702\_70731.722\_EHM80-1@CompuServe.COM>

> Fm: "Ahrens Tim" > INTERNET:tahrens@devmail.sps.mot.com

> Well, one more 40-9er complete! Got it finished about  
> 11 o'clock the other night, and heard W9SYV calling CQ.  
> Of course, it wasn't in the box or anything, but what the  
> heck, let's try. Oh-oh, where's that straight key?.....

In the box, one key idea might be like the little one that is on top of the Spider kit.

Dan  
70731.722@compuserve.com

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Dan Keen <70731.722@CompuServe.COM>  
Subject: [3319] AA meetings schedule?

Message-ID: <960829044027\_70731.722\_EHM78-1@CompuServe.COM>

Anybody know of an WWW URL where can be found a national list of meeting times and places for local Altoids Anonymous groups?

Dan  
70731.722@compuserve.com

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: talljazz@teleport.com (Dan Presley)  
Subject: [3326] Adrian Weiss  
Message-ID: <v01530502ae4af00322d0@[206.163.122.23]>

I just picked up a copy of Ade Weiss' book, "Joy of QRP" at a used bookstore. Great reading! Does anyone know what's happened to him? Is he still an active qrp'er, and/or is he still writing?  
Dan N7CQR

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: herr@ridgecrest.ca.us (Michael Herr)  
Subject: [3379] Backpacking trip over  
Message-ID: <v01530505ae4cde6797ff@[199.120.150.47]>

My friends Jan and Arun have returned from their backpacking trip with a brand new NorCal 40 (original, been sitting around waiting for a builder). They have a few tales to tell, including doing the final transmitter alignment in the woods with a leatherman tool! They have promised to send in a report here and to the Adventure Radio Club.

72  
Mike WA6ARA

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: BParkes@aol.com  
Subject: [3380] Balloons and such  
Message-ID: <960829223816\_468387364@emout12.mail.aol.com>

This month's 73 mag has a good article on a 160 mtr balloon ant. Just as a

reference.

73 BRUCE KA2ZGW

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Joel Malman <malman@BBN.COM>  
Subject: [3324] Bug for sale, etc...  
Message-ID: <199608290714.DAA105768@nss2.CC.Lehigh.EDU>

Folks,

While not QRP ... I have a Bug for sale:

I thought I would offer this up to the QRP collective before I let the [internet] rec.ham-radio.swap, etc newsgroups get at this...

So, for any Vibroplex (bug) collectors out there, I have for sale an original bug. Circa 1965, S/N 242751. This is one of the bugs with the Broadway, NYC gold nameplate on a grey base. Works fine. Had many Q's with this bug with my NorCal 40a and many, many rigs before.

\*\*\* This bug comes with original (black) carry-case \*\*\*

I am the original owner. Worked WAS and well over 100 countries with this bug. Price is \$100. shipped to U.S. mailing address.

I can be best reached via E-Mail at: malman@bbn.com  
I have voice mail at 617-873-3299, but E-Mail is better.

OB, QRP:

30 meters is one strange band. One minute (or so) it's open to Europe (I worked an OK1 and G4) and a few minutes latter, forget it, the band is closed.

72,3 .. & looking foward to the '96 fox hunt ...

/joel                      wa1qvm                      (malman@bbn.com)

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996

From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>  
Subject: [3326] Charging Gel Cells  
Message-ID: <322567bf.pandora@pandora.lugs.org.sg>

Hi Gang,

I know this subject has been beaten to death but I do have a question about charging of Gell Cells that I need to clear up. According to the ARRL Handbook:-

Gell cells can be charged wiht fairly large currents (a "bulk" rate, C/4 at most) at the beginning of the charge cycle, but they require a reduced tapering current in the "overcharge" region (2.3 to 2.4 V/cell).

I understand then that the "bulk" current is an optional maximum to speed up charging. Wouldn't this mean that I can actually connect my Gell cell to any regulated power supply set at 14.4V as long as the current does not exceed C/4? In other words, if I have a 26-Ah 12V Gell cell, I can just set my regulated PSU to 14.4 and connect it up. I just check that the initial current is less than C/4. As the battery charges up, the voltage differential between the PSU and the battery reduces thus automatically tapering off the current until it is almost 14.4V? Wouldn't this work?

Now, if this is the case, would it be that the only advantage of custom Gell cell chargers are:-

1. The ability to maintain bulk current for a longer period thus speeding up the charging process.
2. Ability to float charge?

Am I right here or am I missing out something?

73 de 9V1ZV Daniel

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*-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg      |
| 9V1ZV      | danwee@singnet.com.sg                |
|            | daniel.wee@f516.n600.z6.fidonet.org |
+-----+-----+
```

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Dan Keen <70731.722@CompuServe.COM>  
Subject: [3354] Charging Gel Cells  
Message-ID: <960829171859\_70731.722\_EHM56-1@CompuServe.COM>

> Now, if this is the case, would it be that the only advantage of  
> custom Gell cell chargers are:-  
>  
> 1. The ability to maintain bulk current for a longer period thus  
> speeding up the charging process.  
>  
> 2. Ability to float charge?  
>  
> Am I right here or am I missing out something?  
>  
> 73 de 9V1ZV Daniel  
>  
>

The standard chip used on custom Gellcell chargers is temp compensated to match the characteristics of how a gell cell behaviour changes with temp. Suppose that the temperature on both battery and charger is the same, but is not normal room temp (e.g. both are side by side in cold outdoor weather). The custom charger main chip will know the temperature inside itself, and it will alter the charging characteristics according to whatever its designer had predicted would keep the battery happy at that temp.

BTW, the perfect bulk charge rate for a gell cell is 1/10 the amphour rating. So with an 1/2 amp bulk rate charger, the perfect size of gellcell to buy would be a 5 amphour battery. For instance, the common 1 amp charger is going to reduce battery life on any cell rated less then 10 AH. In most smart gell cell chargers, changing one 1 % precision resistor in the circuit will change the charge rate e.g. half the old value of resistor will halve the charge rate. Of course \_increasing\_ the charge rate with a resistor swap will probably exceed the rating on some of the charger's circuit components. Too low a charge rate will slow things down but won't be hard on the battery. For a common backpacking 2 amp battery, any charger with bulk rate over 0.2 amp is going to reduce battery life. Many persons who use gell cells everyday (e.g. bicycle commuters) are using a charge rate more then .10, and so they are buying replacement gell cells all the time.

Dan  
70731.722@compuserve.com

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: john andrews <jm165723@eee.org>  
Subject: [3352] Crystal tester sold...  
Message-ID: <3225C5D8.403B@eee.org>

The crystal tester has been sold. Thanks to all.

72, John-N5INZ

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: "W. D. (Doc) Lindsey" <70511.3041@compuserve.com>  
Subject: [3334] FS: NIR-10 DSP  
Message-ID: <960829130118\_70511.3041\_IHD79-1@CompuServe.COM>

For Sale: NIR-10 DSP unit made by JPS. Works great, w/manual. \$130.00 includes shipping in continental USA. Just bought transceiver with everything built-in, so no longer need this unit.

TKS es 73,  
--Doc K0EVZ

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Jeff Gold <JMG@tntech.edu>  
Subject: [3332] FS:Kent Paddle  
Message-ID: <01I8U9XSAZWY8WX4RC@tntech.edu>

Someone on the list had been looking for a paddle.. I came across this.

I DO NOT know anything about it. .don't write me

X-News: eagle.tntech.edu rec.radio.swap:550  
From: w2vjn@rosenet.net  
Subject:FS:Kent Paddle  
From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: ji3m@scubed.com (James R. Duffey)  
Subject: [3339] G5RV resonant on 20 Meters  
Message-ID: <v02130501ae4b5446faed@[192.31.66.229]>

Mark- In "[3211] Re: G5RV revisited" you wrote, "No, no, no. The G5RV is not resonant on any of the ham bands."

I am not sure what you mean to say with this statement, but the G5RV is resonant on 20 M where it is 1.5 wavelengths long. It has no reactance and a low resistance. I assume you meant to say that it is not a half



wavelength long on any ham bands, or that it does not present a 50 Ohm match on any ham bands, but antennas can be "resonant" without being a half wavelength long, or without presenting a 50 Ohm feedpoint resistance.

I agree with the rest of your post. - Duffey KK6MC/5

James R Duffey KK6MC/5 DM65  
30 Casa Loma Road  
Cedar Crest, NM 87008

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: James Bell <jim.bell@canada.cdev.com>  
Subject: [3347] G5RV REVISED  
Message-ID: <199608291540.LAA156048@nss2.CC.Lehigh.EDU>

HI to all G5RV users,  
When I got tired of the iffy performance of my G5RV antenna ,  
I realized that it could simply be re-configured into a 20 M  
curtain array with 8 to 10 db gain broadside.  
This type of antenna is called a BOBTAIL CURTAIN ARRAY.  
Here is how it is done:

1. Droop the end 16.5 ft at each end of the flat-top.  
Re elevate the antenna to the 20 ft level.  
The end of each drooping section can be secured to ground  
stakes with string but do not have to be grounded.
2. Cut one side of the spaced feedline 16.5 ft from the  
flat-top center insulator.
- 3 Short together the TWO SIDES of the feedline that feeds the  
flat-top at the point where the ONE SIDE was cut.
4. The remaining cut wire that feeds back to the balun/coax  
must be grounded at the cut-point to a ground stake or 20 M  
radial.
5. By adding a switch or relay at the "cut point" the antenna  
can be used as a G5RV or a CURTAIN.
6. The length of twin feeder that is between the coax and the  
"cut point" acts as a matching stub and must be suspended  
above ground .  
The velocity factor of the twin lead may affect the resonant

freq of the ant but if you were using a G5RV you were using a tuner any way.

Good DX to all.  
72 JIM VE3DDY

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Ron Giuntini <rong@slip.net>  
Subject: [3317] G5RV vs 40M dipole  
Message-ID: <E0uvyjd-0002K8-00@mouse.slip.net>

OK guys (since I have yet to see any posting from a female), what does anyone think of the difference between a full size dipole for 40 and a G5RV on 40? I would like to think about using the 40 dipole on 20 with a tuner if possible...Thoughts?

Ron KB6GK  
NorCal #1718  
San Francisco

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: jim hale <kj5tf@mctc.com>  
Subject: [3351] Good price for small solar panels  
Message-ID: <3225E203.5577@mctc.com>

Small solar panels seem costly - heres to best I've found.  
>From Mr Solar - mrsolar@netins.net or  
[www.netins.net/showcase/solarcatalog/](http://www.netins.net/showcase/solarcatalog/)

Solarex SX-Sa5-12v 5.10 watts @ 17v peak. 13.7x13.7 \$75. + UPS  
Korean 10 watts @ .57A 10.6x17.6 x 3/8" \$100. + PS

I havent tried these, but they might be a good choice.

GL & 72/3'z de Jim

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: ke1ex@ids.net (Laurent C. Lafond)  
Subject: [3369] Handy Power Stations  
Message-ID: <199608292113.RAA01033@pobox.ids.net>

Hi guys -

Finally found a WalMart here in Rhode Island that carried them. They have plenty at \$15 each. The one I got doesn't work. Checking the instructions, they say that there may be a lot of them with bad solder connections. Going to return it and check the replacement out in the parking lot before I leave. If it won't give me joy, it goes right back.

72,

Laurent AA1QJ

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996

From: sassoli@i11wh10.settimo.italtel.it

Subject: [3333] Heath kits: still on the market?

Message-ID: <9608291257.AA19473@ic8u32.settimo.italtel.it>

Hello to all, I've just read the message of Vic about the HW-9.

Is it still possible to find a place selling the nice QRP kits from Heath?

Please if someone has some addresses to suggest me (anywhere in the world!) let me know.

In Italy that has been impossible for abt 10 years.

Thanks in advance and 73.

Paolo IK2LNH

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996

From: bcutter@csn.net (Bob Cutter)

Subject: [3359] HW-7, PS, FS

Message-ID: <199608291800.MAA04088@teal.csn.net>

HW-7 with Heath power supply and manual. Not modified, looks good, works well. Needs a good home. \$125.00, plus shipping.

72, Bob KI0G

QBF? ZUE

Bob Cutter, .....Glenwood Springs, CO

KI0G

bcutter@teal.csn.net

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996

From: victorj@fast.net

Subject: [3328] HW-9

Message-ID: <m0uw5TS-0004hKC@nn2.fast.net>

I have just fininshed an HW-9. Having problem with the final check out  
Specifically p101  
pins r12 t12 and cwl. I would like to talk to some one about this. My email  
address is victorj@fast.net. If you leave a number and a time to call I'll get  
back to you.

thanks

Vic wm3b

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996

From: Paul Stroud <aa4xx@ipass.net>

Subject: [3373] KL 80M Net

Message-ID: <32261E8C.61CC@ipass.net>

> Hi Gang,

>

> We had a big turnout for the Knightites Net this past Sunday  
> Night. Welcome to Pete -VE3GY and Emory -N4NCU who I believe  
> checked in for the first time. From the soapbox, AE4IC reported that  
> he had just received his KC-2. AC4Z0 checked in with an old phenolic  
> base hand key which he had acquired 30 years ago but had never put on  
> the air until last Sunday night! That key sounds FB, Jeff...The weak signal  
award goes to KF2PH, who hung in there even though propagation  
> wasn't on our side. Nick, I'm not sure how you copied us, but thanks  
> for making it happen. KE4KDT made it in from KY with 1 watt and a  
> respectable signal to boot.

>

> Thanks to everyone who joined in last Sunday's Roundtable. The  
> net is open to all, regardless of power used or code speed. We hope  
> to see you next Sunday on 3710 KHz at 0200Z (10 PM EDT).

>

> The following Knights joined us last Sunday, August 25th:

>

> KC4URI	Steve	Ashland,	VA	569	5W	
> AE4IC	Bob	Greensboro,	NC	449	5W	Big Loop
> AC4ZO	Jeff	Cary,	NC	599+	9W	High Dipole
> KE4KDT	Roy	Prestonburg,	KY	449	1W	160M Dipole
> N4NCU	Emory	Ocala,	FL	229	5W	
> AC4QX	Lauren	Cary,	NC	339	5W	Attic Dipole
> AD4ZE	Warren	Cary,	NC	589	3W	80M TNT
> K3TKS	Danny	Silver Spring,	MD	449	5W	(Secret Weapon)
> VE3GYY	Pete	Whitby,	ON	349	10W	
> WA4NID	Dave	Durham,	NC	599	5W	80M Dipole
> KF2PH	Nick	Patchogue,	NY	229	5W	
> W8KUX	Chas	Kensington,	MD	449	5W	Vertical
> AA4XX	Paul	Raleigh,	NC	(NCS)	5W	80M Dipole @60 ft

>

> For more information on the Knightlites, check out our homepage:  
 > <http://www.duke.edu/~djohnson/>

> 72,

> Paul AA4XX Raleigh, NC

From owner-qrp-l@Lehigh.EDU Thu Aug 29 23:13:27 1996

From: rhight@primenet.com (Roger Hightower)

Subject: [3337] Logging program for Newton?

Message-ID: <199608291357.GAA15698@primenet.com>

Does anyone know of a logging package that is uploadable to the Apple Newton? I've been playing with this little unit, and think it would be a fine portable/qrp afield logger. Any experience with this?

QRP Afield is coming...gotta keep the weight down.

72/73, de Roger AA7QY

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Thu Aug 29 23:13:27 1996

From: Phil Wheeler <pcw12@ix.netcom.com>

Subject: [3365] Logging Software

Message-ID: <3225F53B.622F@ix.netcom.com>

I have an Hp-200LX, small DOS (v. 5.0) computer with 123 built into ROM and a good data base in ROM. I'd like to use it for qrp portable logging. I could build a data base for the purpose (probably the best idea!) or even a spread sheet. But I'm wondering if there is any

existing DOS (not Windows) software I might be able to use for this purpose?

Phil W7UOX

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: herr@ridgecrest.ca.us (Michael Herr)  
Subject: [3315] Looking for Jones plug  
Message-ID: <v01530501ae4bae192b5e@[199.120.150.137]>

I am looking for a jones style plug for a new ham. It is a 15 pin female in a three across, 5 tall configuration. 5 on one side are verticle on one side while the remaining ones are horizontal. Below is a crude ascii sketch of the breast.

```
  - - |  
  - - |  
  - - |  
  - - |  
  - - |
```

Anyone have one or know where I might go to get one?  
Thanks  
72  
Mike WA6ARA

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: herr@ridgecrest.ca.us (Michael Herr)  
Subject: [3378] More info on the juones plug  
Message-ID: <v01530504ae4cde318b74@[199.120.150.47]>

Here is some more info on the Jones socket my friend needs. It's the maller pins, a S315CCE socket, 1.795 inch wide, 1.170 inch high. If anyone had one they don't need and is cluttering up the place he sure could use it. I found it in Newark for \$6 or so, just have to either buy some other stuff to make the minimum or stop by next time passing through Lancaster. If anyone had one they don't need and is cluttering up the place he sure could

use it.

72

Mike WA6ARA

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Steve Slavsky <sslavsky@CapAccess.org>  
Subject: [3316] MVP Handy Power Stations  
Message-ID: <Pine.SUN.3.91-FP.960829001422.7542B-1000000@cap1.capaccess.org>

Visited my local Wal Mart tonite for some odds and ends, and there, staring at me, was one of them there MVP portable power supplies. In the automotive section, near the batteries. Box was kind of worn, taped shut, obviously had been returned. I opened it and the only thing that seemed to be missing was the 15 amp fuse and the bulb in the light portion was burned out. Now the best part - the sticker said \$15.00. Guess what?? I bought it. Its charging as I type this, so I'll see how it works tomorrow. Good thing about Wal Mart - you can return just about anything, anytime. It was the only one I could find on the shelf and the sales clerk had no idea what it was. The sticker on it was dated 8/26/96, so it must have just been priced and shelved.

I know someone posted some info about mods they made recently, but I, of course, discarded those e-mails, thinking I would never see such a unit - whenever I looked on purpose, I could never find one. Anyway, If you could e-mail those mods to me, I'd appreciate it. Beats going through 2 weeks of digests.

Thanks & 73,

Steve, N4EUK  
Reston, VA

If I ever do see any of these again, I'll let the list know.

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: davemed@ix.netcom.com (David Medley)  
Subject: [3363] My counter problem  
Message-ID: <199608291851.LAA22041@dfw-ix9.ix.netcom.com>

My thanks to all those who responded to my problem with the Ramsey counter. I am sorry to say that in spite of all your kind suggestions the instrument remains mute. Here is the tale of my adventures:

First I called Ramsey who advised me:

1. The instrument is out of production.
2. They have no spare parts left in stock.
3. They are very sorry.
4. They suggested I get in touch with MICREL, the manufacturer.
5. "I am afraid so" in reply to my comment that the instrument now appears to be a piece of useless junk.

Second I called MICREL who said yes indeed they had the item in stock but would I please deal with the distributor in Phoenix. Phone number and name kindly supplied.

Third I called said distributor who advised that they did not have the part in stock but that they would order same from MICREL. Minimum quantity 50 at eight bucks a piece. On learning I only needed one I was referred to another distributor who dealt in smaller quantities.

Fourth I called this other distributor who advised me that the minimum quantity they would sell me was 13 but suggested I call a rep in Tucson. Name and phone supplied.

I called this gentleman who was friendly and offered to see what he could do and would call me back. This has not occurred at this time.

Oh well another piece of useless junk in my shack!!

73 de Dave KI6QE/7

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: talljazz@teleport.com (Dan Presley)  
Subject: [3325] N7SCQ beacon  
Message-ID: <v01530501ae4aef54f997@[206.163.122.23]>

I'll try again with this-has anyone copied, or have any info on the qrp beacon of N7SCQ? I copied this 3 nights running the week of 8/12, on 7125 (approx).

Dan N7CQR



From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: sassoli@iilwh10.settimo.italtel.it  
Subject: [3340] Norcal? What is it?  
Message-ID: <9608291418.AA21609@ic8u32.settimo.italtel.it>

Hello to all.

I'm new of this list but in these few days, reading messages on qrp-1  
I read many times about Norcal.

Is there anyone who can explane me what it is?

I suppose it's a QRP rig or something like that.

Or am I making a big mistake?

Thanks to all.

Paolo IK2LNH

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: herr@ridgecrest.ca.us (Michael Herr)  
Subject: [3376] Oops! Re> Jones connector  
Message-ID: <v01530502ae4cd9c9826a@[199.120.150.114]>

Oops, did I mess that one up! I ment BEAST!  
Sorry about that!

72  
Mike WA6ARA

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Ron Giuntini <rong@slip.net>  
Subject: [3318] Paddles wanted  
Message-ID: <E0uvylx-0002RS-00@mouse.slip.net>

Looking for a set of paddles...anyone have any GOOD paddles for sale?

Bencher, Kent, other? Thanks folks.....

Ron KB6GK  
NorCal #1718  
San Francisco

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: torell@sicom.com (Kent Torell)  
Subject: [3370] prop forecast  
Message-ID: <v0213050dae4bb8e55ebe@[192.91.202.41]>

There is a little geomagnetic storming going on, which should die out after this weekend. This is due to a recurring coronal hole. Thereafter, it should be quiet, with low solar flux levels around 74. Same old forecast (need a rubber stamp)...20 during the day, and 40 at night.

This is the last weekend for TMPS activity...I suppose we will have 40 meter FOX activity starting up \*real soon now\*. Film at 11, Chuck?

72, ab7oa

Kent Torell torell@sicom.com 602-483-2867 x40  
SICOM 7585 E. Redfield, #202 Scottsdale, AZ 85260  
AB70A TMPS 1996 Qs=019 States=13 Confirmed=05 DX=01  
AK AZ CA CO HI ID IL KS MN OK OR TX WA  
VE

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Dan Keen <70731.722@CompuServe.COM>  
Subject: [3355] Scout drift and digital  
Message-ID: <960829171904\_70731.722\_EHM56-2@CompuServe.COM>

> Ten Tec suggests using 600 ohm headphones to get the same relative  
> volume between the built in speaker and the phones. Without actually  
> having done this I would agree. Four to 8 ohm headphones are just T00  
> good!  
>  
> If anyone can suggest good, but reasonably priced, headphones for this  
> unit please let me know. I know John suggested the Kenwood HS-8's.  
>  
> As for drift, my Cubby seems to be steady. Lack of heat I suppose.

>  
> 72,  
> Mark  
> N2VPK      Member of the Buffalo QRP Connection  
>

I would appreciate a source for 600 ohm phones too. Have an AutekResearch teeny tiny audio filter that takes 600 ohm phones.

Dan  
70731.722@compuserve.com

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: John Mckee <jmckee@rfmd.com>  
Subject: [3331] Scout drift and digital noise  
Message-ID: <199608291242.IAA129112@nss2.CC.Lehigh.EDU>

Gang,

I've had my Scout about two years and have been very satisfied with the performance.

One thing I've done to help keep the rig from shifting frequency is run a small muffin fan behind the heat sink. Eventually I may mount a DC fan on the heat sink but the fan I use now is AC powered and mounts on a home made aluminum bracket.

Before I used a fan, the heat from the PA would eventually warm up the entire rig. Guess I may be a little long winded! Also, if you operate a lot of slow speed cw with a straight key the heat builds up pretty quick. One of the service techs I talked to a Ten Tec admitted the heat sink is marginal.

Another thing I do is to use an external keyer. I had an MFJ keyer before I got the Scout and I like the weighting better than the built in keyer so I just use the MFJ.

A lot of the digital noise can be filtered by using a communications type headphone instead of the light weight "walkman" type. I have a pair of Kenwood

HS-8 phones  
that work very well. They don't have the high frequency response of my  
light weight  
Sonys. By the way, these work great with the NE SWxx rigs. I the rubber  
cushions  
that seal off external noise and if you close your eyes you will think  
your listening  
to a Kenwood or Yeasu rig.

Hope this is useful.

73

John WB4OFT

From owner-qrp-l@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: christensen.dave@upl.com (Dave Christensen)  
Subject: [3372] Slinky Antenna  
Message-ID: <9608292233.AA25699@ringworld.pacificorp.com>

If you are looking for a source of "Slinky" Antennas try Jim Stevens at  
Antennas West. He puts together a kit with two slinkies, a plastic  
center connection point, a monofilament line to hold the slinkies up with,  
some cups to stick on the wall to hold the line up with, a piece of  
coax with some alligator clips (white to match the walls) and a little  
blurb on ways to use the kit from hard to get-on-the-air places. Last time  
I checked it was only \$20-30. I have one and it is real cute! 73 K7BWZ

From owner-qrp-l@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: "Bill C." <wrc@tir.com>  
Subject: [3360] Ten Tec RX325  
Message-ID: <32260C5E.E17@tir.com>

Hi gang,

I have had a Ten Tec RX325 on line here for several years. I have always  
intended to make a few mods like a better filter for CW, T-R switching,  
etc. Now I have my boat and a renewed interest in qrp & home brew Those  
notions are moving higher on my priorities list.

Anybody else using this receiver?

Bill KU8H

From owner-qrp-l@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Buck Switzer <n8cqa@tir.com>  
Subject: [3346] The Accidental Twofer - Spartan Sprint and Michigan Sprint  
Message-ID: <199608291503.LAA24832@tir.com>

```
--=====841341452==_
Content-Type: text/plain; charset="us-ascii"
```

Labor Day will be a wonderful time for QRP'ers!!! As Russ AA7QU mentioned there will be a 2 hour overlap during the Sprints and the exchanges are compatible. MI-QRP Club will honor Spartan Sprint QS0's and vice versa. Hope to work you all.

By way of reminder I'll also re-run the MI-QRP Sprint info.

72/73 Buck N8CQA  
Contest Chair - MI-ORP Club

```
--===== _841341452==_
Content-Type: application/msword; name="MQRP996.DOC";
  x-mac-type="42494E41"; x-mac-creator="4D535744"
Content-Transfer-Encoding: base64
Content-Disposition: attachment; filename="MQRP996.DOC"
```

[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

From owner-grp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996

From: Buck Switzer <n8cqa@tir.com> (by way of Buck Switzer <n8cqa@tir.com>)  
Subject: [3349] The Accidental Twofer - Spartan Sprint and Michigan Sprint  
Message-ID: <199608291550.LAA00724@tir.com>

--=====841344284==\_  
Content-Type: text/plain; charset="us-ascii"

Labor Day will be a wonderful time for QRP'ers!!! As Russ AA7QU mentioned there will be a 2 hour overlap during the Sprints and the exchanges are compatible. MI-QRP Club will honor Spartan Sprint QSO's and vice versa. Hope to work you all.

By way of reminder I'll also re-run the MI-QRP Sprint info. ASCII this time.

72/73 Buck N8CQA  
Contest Chair - MI-QRP Club

-----

Attachment Converted:

--=====841344284==\_  
Content-Type: text/plain; charset="us-ascii"

MICHIGAN QRP CLUB  
1996 LABOR DAY CW SPRINT

DATE: 2300Z 2 September, 1996 to 0300Z 3 September, 1996.  
(1900 EDT Mon. 09/02/96 to 2300 EDT Mon. 09/02/96)

CW only. 160 thru 6 Meters (no WARC bands). The activity is open to all amateurs.

CLASSES: A - 250 milliwatts or less output.  
B - One watt to 250 milliwatts output.  
C - Five watts to one watt output.  
D - Over five watts output.

EXCHANGE: RST, QTH (State/Province/Country) and MI-QRP Membership  
Number (non-members send power-output).

SCORING: Stations may be worked once per band for QSO points.  
All member contacts are 5 points.

Non member contacts in W & VE are 2 points.  
Non member contacts outside W & VE are 4 points.

Multiply total QSO Points, on all bands, by the total number of States/  
Provinces/Countries worked on all bands for total points.  
U.S. & Canada do not count as countries.

BONUS POINTS: Total points may be multiplied by 1.25 for home brew RX or TX  
w/commercial RX or TX combinations. Multiply by  
1.5 for a total home-  
brew station. Home-brew = any kit or home made  
gear, it is not necessary  
for you to have built it yourself.

Those using home-brew gear on some, but not all bands, may claim credit  
by listing the  
proper bonus points in each band's "BPs" column on the score sheet, adding them  
up and dividing  
by the number of bands used. Enter the average (round to 2 decimal places) in the  
"Totals" row,  
under the "BPs" column. I'll do this for you if you give me adequate rig info on  
each band.

AWARDS: Certificates awarded by class for each State/Province/Country.

A legible, chronological log is required. Please include your name, call,  
address, equipment  
description and POWER OUTPUT Logs must be received by 30 October, 1996.  
Results will be  
printed in the December, 1996 T5W. Final decision on any contest matters rest with  
the contest  
manager.

All logs to: L. T. SWITZER N8CQA  
654 GEORGIA AVENUE  
MARYSVILLE MI 48040-1243

Log and entry sheets available for an SASE to the above.

--=====841344284==\_--

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: "David Kreinberg" <kreinbd@ccgate.dl.nec.com>  
Subject: [3361] TNX - CALL TRIVIA  
Message-ID: <9607298413.AA841350792@smtpgw.ccgate.dl.nec.com>

Thanks to the many nice folks who shared their  
call history with me.

If any of you are interested, give me a private  
post and I'll give you the low down as i've been  
told.

73 de Dave AC5GY

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: QLF%mini@magic.itg.ti.com  
Subject: [3357] VERTICAL ANTENNA STATIC DISCHARGE  
Message-ID: <9608291723.AA19383@itg.ti.com>

From: Brad Bradfield QLF

Subj: VERTICAL ANTENNA STATIC DISCHARGE

Good morning dudes and dudettes - - -

I've been reading the thread on static discharge with vertical antennas the  
past few days and wanted to through my two-bucks worth into the fray.

In my earlier life as a broadcast engineer I maintained a number of AM  
broadcast stations. Virtually all of these vertical antennas were series fed  
(insulated base.) Common practice on verticals of this type was to install an  
air gap across the base insulator to provide a discharge path for static  
buildup and lightning strikes. A common design was two chrome steel balls  
known as "Johnny Balls" (I don't know, don't ask!), separated by a gap as  
narrow as possible but not so narrow that it would arc over on modulation  
peaks.

When the Johnny Balls arced over, the base impedance momentarily looked like an  
RF short; i.e. a very high VSWR. Many transmitters were equiped with an SWR  
sense circuit that would momentarily remove RF drive from the transmitter and  
return it again if the VSWR exceeded some preset limit, commonly 2:1 or 3:1.  
This was done to protect the transmitter, and also to keep the RF from  
sustaining the arc across the Johnny Balls.

I've been near (not too near!) my towers when a storm was building as much as 50 miles away, and the static build-up was already enough to frequently arc over the Johnny Balls. Not only that, but it would already be jumping across all the insulators up and down the guy wires. It would sound like a rifle going off out there everytime it would arc over.

One fairly common broadcasting practice is to put an inductor from the tower base to ground. An inductor with a reactance much, much greater (10X) than the base impedance will not be "seen" by the antenna tuner and will discharge the static built up. The resistor mentioned by others will have the same result.

But in the end, if you take a direct lightning hit, all the protection in the world won't help!

73 's

Brad, WB0CGH

\*\*\*\*\*  
Brad Bradfield, PE                      Electrical Design Engineer  
(H) 817-321-2960                  Texas Instruments, Inc.  
(W) 214-462-6230

Real men talk with their fingers!

QLF@MSG.TI.COM

WB0CGH@W05H.#DFW.TX.USA.NA

ARRL Life Member      QRP-L #377      SMIRK #4906      IEEE(M)      ARS #72  
Collector of wireless and landline Morse keys and accessories.

\*\*\*\*\*

From owner-grp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996

From: okasb@rex.mtv.gtegsc.com (Bob Okas)

Subject: [3358] Re: \*\*\*WARNING\*\*\* Re: MVP Handy Power Stations

Message-ID: <9608291728.AA22887@rex.mtv.gtegsc.com>

Gang,

The one unit I have has had a battery failure, but it was because I tried to use a wall-wart charger that had a higher than rated output voltage. The net result was that one of the two 6V gell cells developed a high internal impedance, thereby saving the 15A fuse in series.

One peculiarity I've observed is that the power station discharges the batteries while the unit is switched off. There's about 1 mA of current drain, as measured at the fuse connector.

I haven't determined the cause yet, (Round Tuit shortage) but pulling the fuse and keeping it in the cable storage compartment is a convenient work-around. The batteries last longer in storage now.

In the power station, there are 3 paralleled diodes in series with the batteries during charging. This means that driving around with the unit plugged into the lighter socket won't fully charge it. You need 14.5V to adequately charge the MVP. Don't put too much trust in that \*Full\* indicator, either. During charging, I periodically measure the battery output voltage and stop the charge cycle when it reaches around 12.7 volts.

Bob - N3MBY/6

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: jim seeber <kw3u@warwick.net>  
Subject: [3346] Re: 14.060 is Useless!; where do we do?  
Message-ID: <3225D65D.17F4@warwick.net>

Dennis Zeares K3ETS wrote:

>  
> Every time I go to 20M and 14.060 the freq is useless!!! Digital  
> stuff is there---everytime!!! Now what??? What freq. are all of you  
> 20M qrp types using as a calling freq.??? I have noticed this trend  
> for many months. I have even posted previously about this trend. These  
> people know full well what they are doing and they have "claimed"  
> 14060 as there freq. So now what? I assume we will move to 14061 +/-.  
> Any advise would be appreciated. Kinda wants to make you go QRO in the  
> extra portion! Is there anything we can do to "re-claim" 14060???  
>  
> Tnx, 72/73 Dennis K3ETS, Dallas, Home of K5FO

Dennis, my thoughts exactly, it is very aggravating, especially when you are in the midst of a qso, I generally move up or down 5. If there is a rtty test going , its best to go work on your antenna farm. At my QTH in NE Pike co. Pa. our biggest problem is the Canadian voice op's and nets, however they are friendly and have even worked a few crossmode. Lucky for me most of my gear has VFO and my ramsey/ryan xmtr boards have a nice collection of xtals(someday I swear I'm gonna hook them all up to a rotary switch HI).

looking forward to more posts on your subject, its a good one.  
Now back to my hamfest buy of the season, a \$35 argonaut 505

mint except have to restring the dial cord..life is good!  
72/73 Jim Matamoras, Pa.

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: jbartac@max.state.ia.us (jbartac)  
Subject: [3351] Re: 14.060 is Useless!; where do we do?  
Message-ID: <3225DD48.1872@max.state.ia.us>

Although I am sad to hear so many digital sigs on 14.060 as described in these posts, none of this is new to RTTY or AMTOR ops, many of whom are also QRM'ed as you are!

For the last couple of years while the STA for automatic digi traffic stations was in effect, RTTY ops who were rag chewing, or meeting in small round tables with friends were often pre-empted by QRM from automatic BBS, MBX, and APLINK stations.

The frustrating part of it all is that although the automatically controlled station should have been able to hear us, no human operator was there to see if QRM was being generated. Often the station that remotely activated the auto-digi station was in the skip zone, and did not hear the RTTY or AMTOR contact. I realize that some of the QRM came from stations who DID hear the ongoing QSO!

What would be a good solution? Band plans only work if all ops comply with or adhere to them. So far the band plan is not working. I Just wanted you all to know you are not alone in your frustration and anger over this matter.

72,  
Jerry KD0CA <><

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Richard Sherman <srichard@northnet.org>  
Subject: [3375] Re: 14.060 is Useless!; where do we do?  
Message-ID: <1.5.4.16.19960829194812.2d671f06@northnet.org>

Dennis Zeares K3ETS wrote:

>  
> Every time I go to 20M and 14.060 the freq is useless!!! Digital  
> stuff is there---everytime!!! Now what??? What freq. are all of you  
> 20M qrp types using as a calling freq.??? I have noticed this trend



Check the September issue of QST, item 47 in the Board minutes. The League Directors have identified this as a problem and have ordered a study and report by the next Annual Meeting. This may result in petitioning the FCC for Part 97 rule changes for band plans. I would urge all to let your Division Director know that you support this initiative. All the QRP groups and clubs out there should do the same.

72 De Rick WZ2T  
ARRL NNY Section Affiliated Club Coordinator

cc: Kay Craigie, WT3P Atlantic Division Director  
Richard

srichard@northnet.org

---If you're not part of the solution,  
You're part of the precipitate.---  
Steven Wright

From owner-qrp-l@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Phil Wheeler <pcw12@ix.netcom.com>  
Subject: [3362] Re: A QRP Field Day from the Top of a Volcano  
Message-ID: <3225E586.22C@ix.netcom.com>

Russ, I just checked out your photo gallery at the ARS home page. Pretty neat!

But...since you were solo, who took the picktures??

More seriously, I'd like to know more about your antennna and its construction, and also about the mast. I have a Sierra and an NC-40A. I've pretty much decided to NOT use the Sierra backpacking due to the need for a tuned antenna to avoid a tuner and the ease of making a single-band dipole. But I'm curious now about your design and how you handled the shunts (i.e., clips or what?).

You used 12 AA batteries. What voltage did you get? And were they alkaline or Lithium? And how did you mount then (I've though of using three 4-AA cases from RS; is that how you did it)? And did you operate the Sierra at full power, or reduce drive to make it thru the contest? Finally, roughly how many hours were you operating during field day?

Great and inspirational adventure!

Phil W7UOX

From owner-qrp-l@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Phil Wheeler <#pcw12@ix.netcom.com>  
Subject: [3342] Re: CALL TRIVIA  
Message-ID: <3225AB53.2449@ix.netcom.com>

Not exactly on target, but there was a 1994 (or thereabouts) QST article on the history of ham radio calls in the U.S. Makes interesting reading. Alas, by 1994 archives are in a box. But if someone is interested in knowing the exact issue, I can do a search.

Phil W7UOX

From owner-qrp-l@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: 29-Aug-1996 0937 <randolph@est.ENET.dec.com>  
Subject: [3338] re: Charging Gel Cells  
Message-ID: <9608291355.AA16761@us4rmc.pko.dec.com>

> current is less than C/4. As the battery charges up, the voltage  
> differential between the PSU and the battery reduces thus automatically  
> tapering off the current until it is almost 14.4V? Wouldn't this work?

Yup, that's what I've been doing for years. I made up a little power supply from a 250 mA transformer, a 3-terminal regulator set to about 14V, and the necessary miscellaneous parts... Charging starts at 250mA and fairly quickly drops off as the battery's voltage comes up. Trickle current into a fully charged battery is around 50-90 mA.

Pick a voltage that will give a low trickle current on a fully charged battery, and pick a transformer that puts out about C/4 (or whatever initial current you want) at around 18VAC. It's just about impossible to fry a battery this way, and the design is almost a no-brainer.

=====  
Tom Randolph N100Q NE-QRP 419 QRP-L 87 ARRL      randolph@asic.enet.dec.com  
=====

From owner-qrp-l@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: "Frank G3YCC" <g3ycc@enterprise.net>  
Subject: [3322] Re: Convert  
Message-ID: <199608290631.HAA28541@mail.enterprise.net>

As an idea for an antenna, visit my web page and look at the end fed one. Being a half wave, no radials or counterpoise is needed. You can make the tuner part in a small metal box, or even plastic, like a 35mm film cassette. Metal is better - less hand capacity. Consider using two tuned circuits in the box, with appropriate sockets, into which you plug the end fed 1/2 wave for the band in use. They really work. Ideal for the 49er. Enjoy your QRPing!

--

Frank G3YCC  
Ham Radio QRP Web Page:  
<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Phil Wheeler <#pcw12@ix.netcom.com>  
Subject: [3343] Re: Convert  
Message-ID: <3225AD35.196F@ix.netcom.com>

I think the 49'er would NOT be the rig to pin your plan on (power output is very low and it will only give you about 6-10 KHz of operating range (basically Xtal controlled)).

For 40 meters only the NC-40A would be a far better choice. And a Sierra (more \$\$\$) would give you a bit more power and a wider selection of bands, plus better receiver, etc.

Re operating in the condo environment, many hams report success. ARRL has a book on the subject called "Low Profile Amateur Radio: Operating a Ham station from almost anywhere".

Good luck!

Phil W7UOX

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: 29-Aug-1996 0906 <randolph@est.ENET.dec.com>  
Subject: [3335] re: Crystal filter programs?  
Message-ID: <9608291317.AA13142@us4rnc.pko.dec.com>

> Are there any software programs out there for designing crystal filters??

On the disk that comes with Wes Hayward's "Intro to Radio Freq Design", there's a few programs for xtal filters. I haven't used them (yet!), but the gist of it is calculating series tuning and parallel coupling capacitors to tweak all of your crystals into a certain passband characteristic (Butterworth, Chebyshev,

etc.). You need some sort of way to measure the parameters (Q, series R, motional L and C) of the crystals, like the simple gadget that Doug DeMaw designed in a QST article...

```
=====
Tom Randolph  N100Q  NE-QRP 419  QRP-L 87  ARRL      randolph@asic.enet.dec.com
=====
```

From owner-qrp-l@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: john andrews <jm165723@eee.org>  
Subject: [3348] Re: Crystal filter programs?  
Message-ID: <3225B964.1BC7@eee.org>

29-Aug-1996 0906 wrote:

>  
> > Are there any software programs out there for designing crystal filters??  
>  
> On the disk that comes with Wes Hayward's "Intro to Radio Freq Design", there's  
> a few programs for xtal filters. I haven't used them (yet!), but the gist of it  
> is calculating series tuning and parallel coupling capacitors to tweak all of  
> your crystals into a certain passband characteristic (Butterworth, Chebyshev,  
> etc.). You need some sort of way to measure the parameters (Q, series R,  
> motional L and C) of the crystals, like the simple gadget that Doug DeMaw  
> designed in a QST article...  
>

```
> =====
> Tom Randolph  N100Q  NE-QRP 419  QRP-L 87  ARRL      randolph@asic.enet.dec.com
> =====
```

Hi All:

I'm selling my tester(the one described in the above by Demaw). Finished in nice box w/meter, pc board, etc.

Not going to build any more filters:(

\$20.00/ shipping

72, John-N5INZ

From owner-qrp-l@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: john andrews <jm165723@eee.org>  
Subject: [3356] Re: Crystal tester sold... -Reply  
Message-ID: <3225D16B.620E@eee.org>

john andrews wrote:

>

> STEVE STUNTZ wrote:

> >

> > I will be in Switzerland Aug29 - Sep11. Stephen Stuntz

>

> Thanks, Steve

>

> When you get back, think you could remove me from your automated  
> list?

>

> John-

From owner-qrp-l@Lehigh.EDU Thu Aug 29 23:13:27 1996

From: "L. B. Cebik" <cebik@utkux.utcc.utm.edu>

Subject: [3327] Re: G5RV vs 40M dipole

Message-ID: <Pine.SOL.3.94.960829064715.8025A-100000@utkux4.utcc.utm.edu>

On Wed, 28 Aug 1996, Ron Giuntini wrote:

> OK guys (since I have yet to see any posting from a female), what does  
> anyone think of the difference between a full size dipole for 40 and a G5RV  
> on 40? I would like to think about using the 40 dipole on 20 with a tuner  
> if possible...Thoughts?

> Ron KB6GK

> NorCal #1718

> San Francisco

Ron,

A full-size dipole for 40 is about 67' long--which is a full-wave dipole on 20, which means quite high impedances--likely to have both high R and high X components. An ATU will tune this antenna, but you may have to play with the parallel line length to achieve an R +/- X value your tuner will accept with comfort and efficiency.

A G5RV is about 102' long, which does quite well with ATUs and parallel feedline all the way. However, on 30 meters, the antenna is about a full wave dipole, which means that on that band, you have the same cautions noted above.

Actual performance, once elevated and fed satisfactorily, will not be very significantly different for any given height. But, performance of either will improve very significantly as you get the antenna higher. That is the place to exert the most creativity.

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Ken Hanks <kenkd1xs@webconn.net>  
Subject: [3330] Re: G5RV vs 40M dipole  
Message-ID: <199608291243.IAA02843@rabbit.webconn.net>

<snip>  
>I would like to think about using the 40 dipole on 20 with a tuner  
>if possible...Thoughts?  
<snip>

Ron:

I would work, but if you feed the dipole with coax, you will have a lot of loss due to high SWR in the coax from the tuner to the feedpoint. Best bet is to use as long of a dipole as high as you can get it. Feed it with ladder line to a decent tuner.

73,

Ken Hanks KD1XS

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: "Frank G3YCC" <g3ycc@enterprise.net>  
Subject: [3323] Re: HAM4\*\* Prefix ?  
Message-ID: <199608290631.HAA28538@mail.enterprise.net>

Hungary

--

Frank G3YCC  
Ham Radio QRP Web Page:  
<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: 29-Aug-1996 0957 <randolph@est.ENET.dec.com>  
Subject: [3341] re: Hello de WB6TNL  
Message-ID: <9608291415.AA19440@us4rmc.pko.dec.com>

> hope to have something on 40 and 30 soon. Will probably roll my own,  
> but those new kits sure look intriguing. I was thinking about a SBL  
> mixer, W7ZOI type filter, 1350 if amp, 602 bfo. What do you think?

Sounds like fun! These QRP gadgets really do work better than you'd expect. I built something similar last year (CA3028 mixer, W7ZOI filter, 1350 if amp, diode product detector, 40m, nothing fancy!), and lately I can't even tune up with 1W into the antenna without getting a ..\_\_.. response.

The one strike against rolling your own... it takes forever compared to a kit!

=====  
Tom Randolph N100Q NE-QRP 419 QRP-L 87 ARRL randolph@asic.enet.dec.com  
=====

From owner-qrp-l@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Ken Hanks <kenkd1xs@webconn.net>  
Subject: [3329] Re: MVP Handy Power Stations  
Message-ID: <199608291240.IAA02692@rabbit.webconn.net>

I picked up one of these power supplys a few months ago for \$39 at a "discount" auto parts store. Can't wait until the Wal-Mart gets built here.

The only suggestion I have on this unit is to change the front jacks to all 12V. All my equipment runs on 12V with the coaxial plugs. Have'nt done it yet, it is on the bench waiting for some motovation.

Inside (if you have not opened it yet) are 2 4Ahr gell cells. Pretty good unit, even better at \$15.

73

Ken Hanks KD1XS

From owner-qrp-l@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: "Robert J. Gobrick" <rgobrick@nfld.com>  
Subject: [3374] Re: My counter problem  
Message-ID: <2.2.32.19960829223613.008be350@public.compusult.nf.ca>

Dave,

Look at it this way - time and technology march on - the idea here was to design the unit to self-destruct so you'll need to buy a newer and betterer model - hi. Now adays you can almost (well this is a stretch) buy a whole

new COUNTER for the price of that old counter chip.

Good luck and is that the phone ringing - must be Tuscon..

Cheers 73/72 Bob V01DRB/WA6ERB

At 11:51 8/29/96 -0700, you wrote:

>My thanks to all those who responded to my problem with the Ramsey counter.  
>I am sorry to say that in spite of all your kind suggestions the instrument  
> Fourth I called this other distributor who advised me that the minimum  
>quantity they would sell me was 13 but suggested I call a rep in Tucson.  
>Name and phone supplied.  
>  
> I called this gentleman who was friendly and offered to see what he could  
>do and would call me back. This has not occurred at this time.  
>  
> Oh well another piece of useless junk in my shack!!  
>  
> 73 de Dave KI6QE/7

```
-----  
| Bob Gobrick - V01DRB/WA6ERB/VE2DRB - Newfoundland, Canada |  
| QRPer Galore - QRP ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |  
| Internet:      rgobrick@nfld.com |  
| Compuserve:   70466.1405@compuserve.com |  
|-----|
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From owner-qrp-l@Lehigh.EDU Thu Aug 29 23:13:27 1996

From: Jason Nathaniel Artz <jartz@umich.edu>

Subject: [3368] Re: N7SCQ beacon

Message-ID: <Pine.SOL.3.95.960829170428.15494A-1000000@galaxian.rs.itd.umich.edu>

On Thu, 29 Aug 1996, Dan Presley wrote:

> I'll try again with this-has anyone copied, or have any info on the qrp  
> beacon of N7SCQ? I copied this 3 nights running the week of 8/12, on 7125  
> (approx).  
> Dan N7CQR

I copied this as well. It was never really strong here in Los Angeles. I don't know anything about it, though.

73 de Jason, AC6XA



From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: facmsa@facilities.buffalo.edu (Adams, Mark S.)  
Subject: [3336] RE: Scout drift and digital noise  
Message-ID: <1996Aug29.095200.1483.14499@facilities.buffalo.edu>

Hi John and Gang:

I have an Argo 556 Cubby (the little brother of a scout must be a cub scout, right?) and find lightweight, high efficiency, stereo headphones to be a monumental pain-in-the-ear! There is just too much out-of-voice and CW frequency audio getting through. Also, the volume control must be set to the bare minimum so volume control is very poor. I use the speaker about 95% of the time.

Ten Tec suggests using 600 ohm headphones to get the same relative volume between the built in speaker and the phones. Without actually having done this I would agree. Four to 8 ohm headphones are just TOO good!

If anyone can suggest good, but reasonably priced, headphones for this unit please let me know. I know John suggested the Kenwood HS-8's.

As for drift, my Cubby seems to be steady. Lack of heat I suppose.

72,  
Mark  
N2VPK      Member of the Buffalo QRP Connection

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: wq8q@juno.com (Rick Tyler)  
Subject: [3377] Re: Slinky Antenna  
Message-ID: <19960829.190040.7127.0.wq8q@juno.com>

On Thu, 29 Aug 1996 16:33:09 +0700 christensen.dave@upl.com (Dave Christensen) writes:

>If you are looking for a source of "Slinky" Antennas try Jim Stevens  
>at  
>Antennas West. He puts together a kit with two slinkies, a plastic  
>center connection point, a monofilament line to hold the slinkies up  
>with,  
>some cups to stick on the wall to hold the line up with, a piece of

>coax with some alligator clips (white to match the walls) and a little  
>blurb on ways to use the kit from hard to get-on-the-air places. Last  
>time  
>I checked it was only \$20-30. I have one and it is real cute! 73  
>K7BWZ  
>  
>

In fact, it's high time to give a little promotion to Antennas West.  
Jim puts together some really fine wire antennas at reasonable  
prices, or you can buy the wire (plastic covered/non-kinking stuff)  
and the hardware from him. Been using a half size G5RV type  
antenna that I bought from Jim in '88 and every time I lose  
a vertical to wind/storm I end up stringing the wire back up.  
Jim's been known to backpack all over the place to test his  
antennas and he's one ham who seems to have fun doing  
what he's doing. I remember when I called with a question  
about an antenna his mother answered  
the phone . . . a real grass roots operation!

72/73 de Rick, WQ8Q  
Cincinnati

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: BOB KELLOGG <ae4ic@nr.infi.net>  
Subject: [3353] Re: Slinky dipole  
Message-ID: <199608291653.MAA03466@mh004.infi.net>

Hi Jerry,  
At 03:33 PM 8/28/96 -0500, you wrote:

>>I found some of the small diameter (QRP) metal slinkys at the local Cracker  
>>Barrel resaurant.

>I built a quick and dirty slinky antenna using two of the small diameter  
>slinkys (QRP spirit and all) and found that it will only go down to 20 m.  
>extended to its natural limit. I'm looking for two more to add on to see if  
>that won't get me to  
>40 m.

Keep us posted on the small diameter slinky antenna. I think the large  
metal ones are out of production now. They are made of plastic these days.

CUL,  
Bob Kellogg, AE4IC

Prolably, but not nececelery. - Benny Hill

AE4IC Tmps 1996 QS=113 States=24 Confirmed=12 DX=33  
AL,AZ,CA,CT,FL,GA,ID,IL,KS,LA,MD,MI,MN,MO,NC,NH,NY,OH,PA,TN,TX,WA,WI,WY  
DXCC:3B8,9A,DL,EI,EK,F,FG,G,GM,GU,HA,HB,HI,K,LU,LZ,OH,OK,OM,ON,OZ,P4,PA,SH,S  
P,TI,UA,UR,VE,XE,YO,YS,YU

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: "Phil, AC6LS" <ac6ls@amsat.org>  
Subject: [3325] Re: stuff  
Message-ID: <32254789.16E4@amsat.org>

Tim Stabler wrote:

>  
> Can someone give me the Far circuit web address? I misplaced the  
> earlier listing when I got on a maching I could not print at.  
>

FAR Circuits..... <http://www.cl.ais.net/farcir/>

73 de Phil AC6LS

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: john andrews <jm165723@eee.org>  
Subject: [3364] Re: VERTICAL ANTENNA STATIC DISCHARGE  
Message-ID: <3225E8F9.DDE@eee.org>

john andrews wrote:

>  
> QLF%[mimi@magic.itg.ti.com](mailto:mimi@magic.itg.ti.com) wrote:  
> >  
> > From: Brad Bradfield QLF  
> >  
> > Subj: VERTICAL ANTENNA STATIC DISCHARGE  
> >  
> > Good morning dudes and dudettes - - -  
> >  
> > I've been reading the thread on static discharge with vertical antennas the  
> > past few days and wanted to through my two-bucks worth into the fray.  
> >  
> > In my earlier life as a broadcast engineer I maintained a number of AM

```
> > broadcast stations.  Virtually all of these vertical antennas were series fed
> > (insulated base.)  Common practice on verticals of this type was to install an
> > air gap across the base insulator to provide a discharge path for static
> > buildup and lightning strikes.  A common design was two chrome steel balls
> > known as "Johnny Balls" (I don't know, don't ask!), separated by a gap as
> > narrow as possible but not so narrow that it would arc over on modulation
> > peaks.
> >
> > When the Johnny Balls arced over, the base impedance momentarily looked like
an
> > RF short; i.e. a very high VSWR.  Many transmitters were equipped with an SWR
> > sense circuit that would momentarily remove RF drive from the transmitter and
> > return it again if the VSWR exceeded some preset limit, commonly 2:1 or 3:1.
> > This was done to protect the transmitter, and also to keep the RF from
> > sustaining the arc across the Johnny Balls.
> >
> > I've been near (not too near!) my towers when a storm was building as much as
> > 50 miles away, and the static build-up was already enough to frequently arc
> > over the Johnny Balls.  Not only that, but it would already be jumping across
> > all the insulators up and down the guy wires.  It would sound like a rifle
> > going off out there everytime it would arc over.
> >
> > One fairly common broadcasting practice is to put an inductor from the tower
> > base to ground.  An inductor with a reactance much, much greater (10X) than the
> > base impedance will not be "seen" by the antenna tuner and will discharge the
> > static built up.  The resistor mentioned by others will have the same result.
> >
> > But in the end, if you take a direct lightning hit, all the protection in the
> > world won't help!
> >
> > 73's
> >
> > Brad, WB0CGH
> > *****
> > Brad Bradfield, PE                      Electrical Design Engineer
> > (H) 817-321-2960                        Texas Instruments, Inc.
> > (W) 214-462-6230
> >
> > Real men talk with their fingers!
> > QLF@MSG.TI.COM
> > WB0CGH@W05H.#DFW.TX.USA.NA
> > ARRL Life Member    QRP-L #377    SMIRK #4906    IEEE(M)    ARS #72
> > Collector of wireless and landline Morse keys and accessories.
> > *****
> > Bill Orr talks about the invention of the quad in his book on quad
> > antennas.  It seems that an engineer kept trying to get an antenna
> > to work in the rarified atmosphere of the Andies.  The antenna tips
> > of the yagi being used to broadcast the programs(religious) kept burning
> > up.
```

>  
> He placed TOILET float balls(at that time- made of copper) on the tips  
> of the Yagi to reduce the corona effect. Thus...John C. Crapper(Inventer  
> of the flush toilet= "John"= Johnny= Johnny Balls.)  
>  
> Still didn't work but lead to the development of the quad from the  
> folded dipole.  
>  
> Ain't trivia wonderful.  
>  
> 72, "Johnny"- N5INZ/6-

From owner-qrp-l@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Mike Boice <kd0fx@worldnet.att.net>  
Subject: [3320] Re: Wal-Mart MVP Handy Power Stations  
Message-ID: <1.5.4.32.19960829045942.00678390@postoffice.worldnet.att.net>

I checked the WM here in Kennewick, WA, and they have several. They're still at \$30, tho, and haven't been marked down. The shelf tag says it's a special item (i.e. non-replenishable, one-time-buy), which allows stores to mark them down if they wish after they've been on the shelf a while. This explains why some people are finding them for \$15, while other places are still at \$30. I'm going to keep my eye on their supply, and wait and see if the price drops before I buy one (or unless there is a sudden rush on them).

73,  
mike KD0FX  
Richland WA QRP-L #576

From owner-qrp-l@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: DYARNES@aol.com  
Subject: [3321] Re: Wal-mart/batteries  
Message-ID: <960829011843\_467752514@emout17.mail.aol.com>

Hi All,

Well, I went to Wal-Mart and they did have the batteries--that's the good news! Bad news is that, at least here in Tucson, AZ, the price is \$23 instead of \$14.99. I didn't fuss too much, but I asked them why other Wal-Marts were selling them cheaper. I got all kinds of strange pieces of logic (none of which particularly satisfied me).

I think I killed all the messages about where they were on sale at the \$14.99

price. Maybe if some of you lucky ones would re E-mail me telling me the stores that have the lower price, I can go back and give them some grief like "How come you will price match K-Mart and Target but you won't even price match your own stores!"

72 de David W7AQK

P.S. I made this last trip to Wal-Mart at about 7:45 a.m. Guess what they were doing in there at the snack bar at that hour of the morning? PLAYING BINGO! (I kid you not.) Next week they will probably give dance lessons!

D.

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: wq8q@juno.com (Rick Tyler)  
Subject: [3344] Re: Wal-mart/batteries  
Message-ID: <19960829.081006.7727.1.wq8q@juno.com>

David (and others) . . . bought two of the battery thingies at walmart yesterday in Cincinnati (Eastgate Store) and they had about 30 of 'em on the shelf . . . \$ 15.00 each . . . all wrapped and packaged up nice and new!

73 de Rick, WQ8Q  
Cincinnati

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Bob Patten <n4bp@shadow.net>  
Subject: [3366] Re: Wal-mart/batteries  
Message-ID: <Pine.SOL.3.91.960829161908.9704A-100000@hyper>

On Thu, 29 Aug 1996, Rick Tyler wrote:

> David (and others) . . . bought two of the battery thingies at walmart  
> yesterday in Cincinnati (Eastgate Store) and they had about  
> 30 of 'em on the shelf . . . \$ 15.00 each . . . all wrapped and  
> packaged up nice and new!  
>

My local Walmart had ONE on the shelf for \$15 which I promptly grabbed. Helluva deal! The clerk had no idea what I was looking for...

Bob Patten, N4BP  
n4bp@shadow.net

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: okasb@rex.mtv.gtegsc.com (Bob Okas)  
Subject: [3367] Re: Wal-Mart/batteries/Codeless in Seattle?  
Message-ID: <9608292043.AA24271@rex.mtv.gtegsc.com>

Gang,

I was quite shocked when I visited one of the Bay area Fry's Electronics store last night. There were banners strung up in the CD aisle advertising that premier grunge band, Pearl Jam's, new CD. Wanna guess the title? "No Code"! I almost flipped out!

ObQrp:

I bought my MVP at Price Club/Costco for the Princely sum of \$10.00 about 1.5 years ago. I knew it was great deal back then and I'm kicking myself for not buying the remaining one they had in stock. Since then, I've seen them on the shelves again, but the price was more like \$19.95! Sounds like the WalMart price is the one to beat!

Bob - N3MBY/6  
Makin' movies on location,  
"Key Grip by SFBM"

From owner-qrp-1@Lehigh.EDU Thu Aug 29 23:13:27 1996  
From: Dan Halbert <halbert@BBN.COM>  
Subject: [3345] Re: [3278] Crystal filter programs?  
Message-ID: <199608291459.KAA07600@halite.Diamond>

>Are there any software programs out there for designing crystal filters??

You might want to look at a spreadsheet I built up a few years ago. Get:

<http://oak.oakland.edu:8080/pub/hamradio/arrl/qst-binaries/xtalf.zip>  
or  
<ftp://oak.oakland.edu/pub/hamradio/arrl/qst-binaries/xtalf.zip>

Dan Halbert, KB1RT

Heres the description in "xtalf.txt" in the zip files (there is also a XTALF.TXT (note capitalization), which is not as informative):

=====

The files in this package are:

- XTALF.WK1 (Lotus 1-2-3 spreadsheet)
- XTALF.FMT (spreadsheet formatting info)
- XTALF.TXT (this file)

Author: Dan Halbert, KB1RT (good in the Callbook).

This package is a Butterworth and Chebyshev crystal ladder filter calculator, done as a Lotus 1-2-3 spreadsheet. This spreadsheet was created on Lotus 1-2-3 Release 4. I have designed it to print on one page when formatted with the given formatting information.

See May 1982 QST, "A unified approach to the design of crystal ladder filters", by Wes Hayward, W7ZOI, p. 21. See also January 1990 QST, "A tester for crystal F, Q, and R", p. 21, by Doug DeMaw, W1FB, which describes a simple test instrument for making the measurements described in the W7ZOI article. Both these articles are reprinted in the ARRL book "W1FB's Design Notebook", by Doug DeMaw.

The spreadsheet is initially loaded with data from the example in that article. The May 1982 QST article has one typo in it, for Butterworth  $N=4$ ,  $k_{23}$ .

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